

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/806,484 06/20/2001		06/20/2001	Jan Arwald	205409US2PCT	5895
22850	7590	12/29/2004	EXAMINER		
OBLON, S	-	MCCLELLAND, 1	GREY, CHRISTOPHER		
ALEXANDI		•	ART UNIT	PAPER NUMBER	
•			2667		

DATE MAILED: 12/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	**	Applica	ation No.	Applicant(s)					
			,484	ARWALD ET AL.					
	Office Action Summary	Examir	ner	Art Unit	-				
		Christo	oher P Grey	2667					
Period fo	- The MAILING DATE of this communi	cation appears on	the cover sheet with the c	correspondence ad	dress				
A SHO THE M - Exten after S - If the - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNI sions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this commo period for reply specified above is less than thirty (30 period for reply is specified above, the maximum state to reply within the set or extended period for reply eply received by the Office later than three months a dipatent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no unication. of days, a reply within the stutory period will apply and will, by statute, cause the a	event, however, may a reply be tin statutory minimum of thirty (30) day d will expire SIX (6) MONTHS from application to become ABANDONE	nely filed s will be considered timely the mailing date of this or D (35 U.S.C. § 133).	y. ommunication.				
Status									
1) 又	Responsive to communication(s) file	d on <i>21 June 2001</i>							
·	•	b)⊠ This action is	-	•					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims								
5)□ 6)⊠ 7)□	 Claim(s) 1-27 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-27 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement. 								
Application	on Papers								
9) 🗀 -	The specification is objected to by the	Examiner.							
10)🖾 ¯	The drawing(s) filed on <u>21 June 2001</u> is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	nder 35 U.S.C. § 119								
a)[Acknowledgment is made of a claim of All b) Some * c) None of: 1. Certified copies of the priority of the priority of the priority of the priority of the certified copies of the capplication from the Internation of the attached detailed Office actions.	documents have b documents have b of the priority docu nal Bureau (PCT F	een received. een received in Applicati ments have been receive Rule 17.2(a)).	on No ed in this National	Stage				
Attachment	(s)								
1) 🛛 Notice	e of References Cited (PTO-892)		4) Interview Summary						
3) 🔯 Infom	e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date <u>1</u> .		Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:		O-152)				

Application/Control Number: 09/806,484 Page 2

Art Unit: 2667

DETAILED ACTION

Drawings

- 1. The drawings are objected to because:
 - (a) Element 603 in fig 6 incorrectly spells accessible
 - (b) Element 613 in fig 6 incorrectly spells authorize
 - (c) Element 615 in fig 6 incorrectly spells router
 - (d) Page 6 of the specification states that the adapters 21 a-g are labeled as H, where in fig 2, they are depicted by h
 - (e) Page 8 of the specification states that in Fig 2 the database is labeled as element 37, where in fig 2, the database is labeled element 39
 - (f) Elements 21-29 should be labeled network A-E, element 31 should be labeled Service F, and element 33 should be labeled Node object G.

Corrected drawings are required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claim 1-12 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter that was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Claims 1 and 7 claim a first object being one of a number of networks, and an electrical

Art Unit: 2667

distribution network. The specification fails to provide an enabling disclosure of how the first object is a combination of two networks as recited in claims 1 and 7.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Danielson et al. (US 5239662) in view of Mendelson (US 6343083) in further view of (WO 98/37724)
- Claim 1, 7 Danielson et al. (Danielson 'hereinafter') discloses within a communication system, a controller (device) configured to establish communication between different/non-compatible locations/networks (elements 34-37 and 31-1-N in fig 3). Danielson discloses these locations/networks using different communication protocols. Danielson discloses devices (elements 21 a-n in fig 2) being coupled to the controller via adapters (elements 22a-n in fig 4), which convert (translate) the received protocol to a common protocol (Col lines 22-68). Danielson does not disclose a protocol coordination mechanism that compares attributes of different protocols supported by a first adapter and a second adapter when establishing the communication session between the first object and second object. Danielson does not disclose a database having a list of subscribers with associated calling numbers.

Art Unit: 2667

Mendelson discloses an invention designed at establishing a connection across a connection- oriented network. Mendelson also discloses an access network controller containing a cache of tables containing IP to MAC translation addresses and other parameters (Col 12 lines 26-59) pertaining to the networks (elements 112 and 110 in Fig 1). The access network controller compares the parameters within the cache in order to translate the specified destination IP address to a corresponding destination address (Col 13 lines 12-15). Mendelson also discloses an Ethernet, ATM and LAN network (Col 5 lines 25-49). Although one skilled in the art can appreciate the cache of tables disclosed by Mendelson including a list of subscribers, it is not specifically disclosed within the specification.

Sylvian et al. (Sylvian 'hereinafter') discloses within a communication system a plurality of communication networks, each utilizing its own protocol. Furthermore, Sylvian discloses a database (element 250 in fig 3) that stores subscription data (disclosed on page 9 lines 7-27).

It would have been obvious to one of the ordinary skill in the art at the time of the invention to modify the controller disclosed by Danielson with the controller disclosed by Mendelson, aimed towards comparing parameters in order to translate protocols. The motivation for the modification of these teachings is to achieve better management of connections (see abstract). Furthermore, it would have been obvious to one of the ordinary skill in the art at the time of the invention to modify the teachings of both Danielson and Mendelson with the subscription and service list/database disclosed by

Art Unit: 2667

Sylvian. The motivation for this modification is to provide management of multiple networks and services in a more efficient manner (disclosed on page 3 lines3-5).

Claim 2, 8 Danielson discloses a central site/controller (element 30 in fig 3) that communicates with different locations (objects), and routes/switches the information accordingly (Col 4 line 22-38). The motivation is the same as that for claim 1 and 7.

Claim 3, 9 Danielson discloses several devices being interfaced with the communication controller (router) via adapters (elements 22 A-N in fig 2). This controller is designed to control and route (router) information (disclosed in Col 4 lines 53-68).

Danielson also does not disclose a control signal being sent to establish a protocol to be employed.

Danielson does not disclose a database containing a subscriber list and numbers.

Sylvian discloses a main database containing subscriber information (page 3 lines 8-17 and page 9 lines 7-27). Sylvian also discloses when a new subscriber attempts to connect to a network, the subscriber accesses the main database, where information (protocol info) is gathered about the new device and communicated (control signal) to the affected networks/devices Page 13 line 1-17).

The motivation is the same as that for claim 1 and 7.

<u>Claim 4, 10</u> Danielson does not disclose the entries within the database being changed when the subscriber moves from one object affiliation to the other.

Sylvian discloses the maintenance of subscriber data, location and activity information, and no need for changing calling numbers (Page 8 lines 12-18 and page 16 lines 1-23). The motivation is the same as that for claim 1 and 7.

Art Unit: 2667

<u>Claim 5, 11</u> Danielson does not disclose the entries within the database having associated calling numbers for a particular subscriber with an object and a net number for said subscriber.

Sylvian discloses several different assigned numbers for a given subscriber (page 16 lines 1-23). The motivation is the same as that for claim 1 and 7.

Claim 6, 12 Danielson does not disclose associating one calling number for a subscriber with a net number and another number at which the subscriber is available.

Sylvian discloses a number of different numbers being assigned to each subscriber, where the different numbers represent different specifications (net and availability, page 16 lines 1-23). The motivation is the same as that for claim 1 and 7.

Claim 13, 27 Danielson et al. (Danielson 'hereinafter ') discloses within a communication system a method comprising a controller (device) configured to establish communication between different/non-compatible locations/networks (elements 34-37 and 31-1-N in fig 3). Danielson discloses devices (elements 21 a-n in fig 2) being coupled to the controller via adapters (elements 22a-n in fig 4), which convert (translate) the received protocol to a common protocol (Col lines 22-68).

Danielson does not disclose identifying attributes of both objects.

Mendelson discloses an invention designed at establishing a connection across a connection- oriented network. Mendelson also discloses an access network controller containing a cache of tables containing IP to MAC translation addresses and other parameters (Col 12 lines 26-59) pertaining to the networks (elements 112 and 110 in Fig 1). The access network controller compares the parameters within the cache in

Art Unit: 2667

order to translate the specified destination IP address to a corresponding destination address (Col 13 lines 12-15).

Therefore it would have been obvious to one of the ordinary skill in the art at the time of the invention to modify the controller disclosed by Danielson with the controller disclosed by Mendelson, aimed towards comparing parameters in order to translate protocols. The motivation for the modification of these teachings is to achieve better management of connections (see abstract).

<u>Claim 14</u> Danielson discloses converting (translate) a received protocol to a common protocol (Col lines 22-68). Danielson does not disclose determining whether an intermediate translating step is required.

Mendelson discloses a controller that makes an initial translation, and furthermore determines if the destination address is native or not, and translates as necessary (Col 13 lines 12-15).

The motivation is the same as that for claim 13.

<u>Claim 15</u> Danielson discloses converting (translate) a received protocol to a common protocol (Col lines 22-68). Danielson does not disclose the predetermined protocol being different from the native protocol and another protocol.

Mendelson discloses a controller that makes an initial translation, and furthermore determines if the destination address is native or not, and translates as necessary (Col 13 lines 12-15).

The motivation is the same as that for claim 13.

Art Unit: 2667

Claim 16 Danielson discloses devices (elements 21 a-n in fig 2) being coupled to the controller via adapters (elements 22a-n in fig 4), which convert (translate) the received protocol to a common protocol (Col lines 22-68). Furthermore, Mendelson discloses a conversion of protocol exclusively at the adapters (disclosed in Col 8 line 60- Col 9 line 3). The motivation is the same as that for claim 13.

<u>Claim 17</u> Danielson does not disclose determining whether an activity in the first object requires communication outside of the object and initiating a sending step when the activity takes place outside of the first object.

Sylvian discloses when a subscriber enters a new coverage area (activity), a location update is communicated (sending step) to an HLR (Col 12 lines 10-21).

The motivation to modify the teachings of Danielson and Mendelson with the subscriber profile (HLR) disclosed within Sylvian's invention is to manage and control subscriber information and services.

<u>Claim18</u> Danielson discloses translating the information into a format that is supported by the second adapter (Col lines 22-68), but not for translating the format into another protocol.

Mendelson discloses an initial translation, and furthermore determines if the destination address is native or not, and translates as necessary (Col 13 lines 12-15).

The motivation is the same as that for claim 13.

<u>Claim 19</u> Danielson and Mendelson do not teach establishing a profile for future communication sessions.

Art Unit: 2667

Sylvian discloses a subscriber profile (element 310 in Fig 5) for establishing a connection (page11 line 29- page 12 line 9).

The motivation to modify the teachings of Danielson and Mendelson with the subscriber profile disclosed within Sylvian's invention is to manage and control subscriber information and services.

<u>Claim 20</u> Danielson does not disclose a first object establishing a second object in which services for future communication will be used.

Sylvian discloses parameters being stored within the subscriber profile including the type of service, for which the connection between the first device and second device are determined (page 11 line 29- page 12 line 9). The motivation is the same as that for claim 19

Claim 21 Danielson discloses a form of protocol coordination mechanism, whereby a number of step/rules take place in order for communication to take place (disclosed in Col 5 lines 1-32). The motivation is the same as that for claim 13.

<u>Claim 22</u> Danielson does not teach a user profile.

Sylvian discloses a subscriber profile (element 310 in Fig 5) for establishing a connection (page11 line 29- page 12 line 9).

The motivation to modify the teachings of Danielson and Mendelson with the subscriber profile disclosed within Sylvian's invention is to manage and control subscriber information and services.

Claim 23 Danielson discloses a form of protocol coordination mechanism, whereby a number of step/rules take place in order for communication to take place

Art Unit: 2667

(disclosed in Col 5 lines 1-32). Furthermore, Sylvian discloses a subscriber profile (element310 in fig 5) for authentication and authorization, and another database for updating location. One skilled in the art can appreciate the need for specific rules.

The motivation is the same as that for claim 22

<u>Claim 24</u> Danielson does not disclose indicating conditions for linking the first object to the second object by considering available factors.

Sylvian discloses a subscriber profile that indicates several different conditions for linking, including preference data such as cost of routing (page 11 lines 29-page 12 line 9).

The motivation to modify the teachings of Danielson and Mendelson with the subscriber profile disclosed within Sylvian's invention is to manage and control subscriber information and services.

<u>Claim 25</u> Danielson does not disclose registering agreements and conditions that are mutually agreed upon.

Sylvian discloses a subscriber profile that indicates preference data (registering agreement and conditions) for the linking between objects (page 11 lines 29-page 12 line 9). The motivation is the same as that for claim 24.

<u>Claim 26</u> Danielson discloses the controller (element 20 in fig 2) being accessible to a number of devices (elements 21 A-N). The motivation is the same as that for claim 13.

Application/Control Number: 09/806,484 Page 11

Art Unit: 2667

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- (a) Ramasubramani et al. (US 6507589) discloses a method and apparatus for routing between network gateways and service centers. Ramasubramani discloses a gateway (controller), a router and a routing table (list).
- (b) Gardner et al. (US 5691984) discloses a brouting switch that allows communication between external systems with differing protocols.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher P Grey whose telephone number is (571)272-3160. The examiner can normally be reached on 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on (571)272-3179. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christopher Grey Examiner Art Unit 2667